

A. $\begin{pmatrix} -6 \\ -4 \end{pmatrix}$ B. $\begin{pmatrix} -4 \\ -6 \end{pmatrix}$ C. $\begin{pmatrix} -6 \\ 4 \end{pmatrix}$ D. $\begin{pmatrix} 6 \\ -4 \end{pmatrix}$

39. Simplify $5 - 7 + 2(3 - 8)$

A. -12 B. -8 C. -5 D. -4

40. If $r = \begin{pmatrix} -10 \\ -3 \end{pmatrix}$ and $n = \begin{pmatrix} 8 \\ -6 \end{pmatrix}$, find $n + r$

A. $\begin{pmatrix} -2 \\ -9 \end{pmatrix}$ B. $\begin{pmatrix} 2 \\ -9 \end{pmatrix}$ C. $\begin{pmatrix} 18 \\ 9 \end{pmatrix}$ D. $\begin{pmatrix} -2 \\ -3 \end{pmatrix}$

ESSAY QUESTIONS (2009 – B. E. C. E)

Question 1

- a). Simplify: $\frac{1200 \times 1260}{800}$ and write your answer in standard form.
- b). A plot of land measures 25 m by 12 m. A portion of this plot measuring 8 m by 8 m is used for the cultivation of vegetables. Find the area of the plot not cultivated.
- c). The table below shows the performance of Aisha in her final examination.

Subject	Score
English Language	54%
Mathematics	36%
Ga	68%
Science	50%
Social Studies	32%

Draw a pie chart to represent this information.

Solution

(a). $\frac{1200 \times 1260}{800} = \frac{12 \times 1260}{8} = 3 \times 630 = 1890 = 1.89 \times 10^3$

b). Area of plot of land = $25\text{m} \times 12\text{m} = 300\text{m}^2$

Area of land used for the cultivation of vegetables = $8\text{m} \times 8\text{m} = 64\text{m}^2$

Area of land left uncultivated = $300 - 64 = 236\text{m}^2$

c). Total score of the subjects
 $= 54\% + 36\% + 68\% + 50\% + 32\% = 240\%$

Subject	Score	Angle of sector
English Language	54%	$\frac{54}{240} \times 360^\circ = 81^\circ$
Mathematics	36%	$\frac{36}{240} \times 360^\circ = 54^\circ$
Ga	68%	$\frac{68}{240} \times 360^\circ = 102^\circ$
Science	50%	$\frac{50}{240} \times 360^\circ = 75^\circ$
Social Studies	32%	$\frac{32}{240} \times 360^\circ = 48^\circ$

Pie Chart is shown below

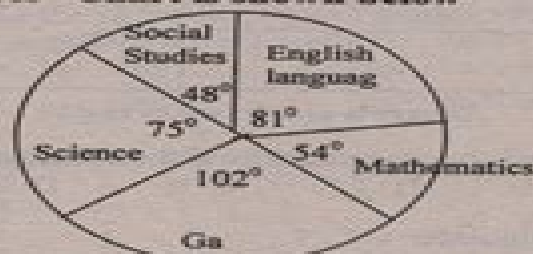


Diagram not drawn to scale

Question 2

i) The table below shows the scores of some students in an examination.

Scores	0	1	2	3	4	5	6	7	8	9	10
Frequency	3	5	3	2	7	6	5	4	2	2	1

- o From the table, find;
- n a). how many students wrote the examination;
- s b). the modal score;
- c). the number of students that scored 7 or more;
- c d). the mean score correct to one decimal place.

Solution

- a) Number of students who wrote the examination.
 $= 3 + 5 + 3 + 2 + 7 + 6 + 5 + 4 + 2 + 2 + 1 = 40$
- b). Modal score = score with the highest frequency
 Then the modal score is 4
- c). Number of students who scored 7 or more
 $= 4 + 2 + 2 + 1 = 9$
- d)

Scores (x)	0	1	2	3	4	5	6	7	8	9	10
Frequency, f	3	5	3	2	7	6	5	4	2	2	1
$f \times x$	0	5	6	6	28	30	30	28	16	18	10
$\Sigma f = 40$											
$\Sigma fx = 117$											

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